

THE UNIVERSITY OF WISCONSIN
THE MEDICAL SCHOOL
MADISON 6

MCARDLE MEMORIAL LABORATORY
FOR CANCER RESEARCH

May 10, 1949

Dr. Arthur Kornberg
Experimental Biology and Medicine Institute
National Institutes of Health
Bethesda 14, Md.

Dear Dr. Kornberg:

I have your letter of May 5 regarding the preparation of TPN. Dr. Mueller and I have been collaborating on this project. We shall be very glad to help you by letting you know of the procedure before it appears in print. As Dr. Potter evidently told you at the meetings, we had obtained pure TPN by a procedure which is much simpler than that of Warburg, with high recoveries. It involves an adsorption on activated charcoal. We were not inclined to give much information concerning the procedure because we had some difficulty just before the meetings. A new batch of charcoal arrived which did not behave the same and we have since been working very hard to resolve this difficulty. After a study of a number of charcoals, we think we have one which is reliable and consistent in properties, so that we are about to finish the project. It will be perhaps two or three weeks before we have time to check everything well and get a manuscript typed up. Then we shall be glad to send you a copy.

In the meantime, in order to save you time, I would like to make several suggestions concerning materials you will need and could get ordered. I assume, since you are doing structure work, that you will want to make TPN on a relatively large scale. We use pork liver and have worked up as much as 100 kg. at once, from which one gets approximately 3-4 grams of TPN. The problem of handling the large volumes of extracts involved here was solved by purchase of several 20 gallon galvanized ash cans which are obtainable in any hardware store for about \$2.98 each. You need to purchase or arrange loan of an electric driven meat grinder, if you do not already possess one. Further, I would suggest you purchase 5-10 lbs. each of two charcoals known as "Nuchar C" and "Nuchar Cl90". These can be obtained at the Industrial Sales Division of the West Virginia Pulp and Paper Company. I have dealt with their plant at Tyrone, Pa., but they have offices at 230 Park Avenue, New York 17, N.Y.

I wish you success with your structure studies.

Yours sincerely,

G. A. LePage
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